KENWOOD

CASSETTE-RECEIVER

# KRC-455D
# KRC-455L

## INSTRUCTION MANUAL

KENWOOD CORPORATION

B64-0351-00 (ES) (MC)

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Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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# Safety precautions



## ⚠WARNING

**Take the following precautions to prevent fire and avoid personal injury :**

- Press in the faceplate until it is firmly locked to the main unit to prevent it from being detached in an accident.
- When extending the power supply cable, memory backup cable, or ground cable, use 0.75mm² (AWG18) or larger automotive grade cable to avoid cable deterioration or damage to the covering.
- Check that no metal objects (coins, tools, etc.) are left inside the unit to avoid short circuits.
- If you smell or see smoke, turn the power off immediately and consult your Kenwood dealer.

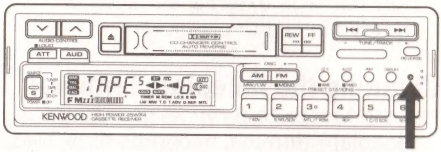
## ⚠CAUTION

**Take the following precautions to keep the unit in proper working order.**

- Be sure the unit is connected to a 12V DC power supply with a negative ground connection.
- Do not open the top or bottom cover.
- Do not install the unit in places it is exposed to direct sunlight, high heat or humidity, water may splash over it, or dust exists.
- Do not store the detached faceplate or faceplate storage case in places it is exposed to direct sunlight or high heat.
- Do not splash water on the faceplate.
- The faceplate is a precision piece of equipment that contains sensitive parts. Do not subject it to excessive shock.
- Do not touch the terminals of the faceplate or the unit.
- If you need to replace the fuse, make sure the new fuse is of the same type and rating. Using a fuse of a different type of rating may damage your unit. The fuse rating is normally shown on the fuse and fuse box.

## NOTE

- If you have difficulty in installing this unit in your vehicle, contact your Kenwood dealer.
- If it doesn't seem to be working properly, first press the Reset button. If the malfunction persists, consult your Kenwood dealer.




Reset button

## IMPORTANT INFORMATION

**This unit is NOT designed to be connected directly to a CD changer that was manufactured and sold before 1994. If you plan to use such units, please read the following information carefully.**

- **To control KDC-C200 / KDC-C300 / KDC-C400**
  A CA-DS100 (sold separately as an optional accessory), along with the control box and extension cord supplied with the CD changer, are required.
- **To control KDC-C301 / KDC-C600 / KDC-C800 / KDC-C601 / KDC-C401**
  A CA-DS100 (sold separately as an optional accessory), along with the extension cord supplied with the CD changer, are required.
- **KDC-C100 / KDC-C302 / C205 / C705 and CD changer Manufactured by Other Companies are not compatible with this Kenwood model.**

FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN DAMAGE TO THIS UNIT AND/OR THE CD CHANGER

# Care and Maintenance

## Cleaning the unit

- If the front panel is dirty, wipe it clean with a silicon cloth or soft dry cloth with the power off.

**⚠CAUTION**

Do not use hard cloths or paint thinner, alcohol, or other volatile solvents. These may damage external surfaces or remove indicator characters.

## Cleaning the faceplate terminal

- If the faceplate terminal or mount faceplate terminal becomes dirty, wipe it clean with a soft dry cloth.

## Cleaning the tape head

- As you play tapes for a long time, magnetic dust and other grime accumulates around the heads and eventually causes noise that lowers sound quality. To clean the heads, use a cleaning tape or cleaning kit. Make sure you purchase a cleaning tape or cleaning kit suited to car audio use.

## Be careful with your tapes.

- Before loading a cassette, take up any slack tape, by turning one of the spools with a pencil. Loading a slack tape can cause tape to tangle around the capstan and pinch roller and other problems.
- Do not use any deformed cassettes or cassettes with labels coming off, or the unit may fail.
- Do not leave cassettes exposed to high heat (for example, on the dashboard where it is exposed to direct sunlight, or near heater outlets). This can deform the cassette shell.
- Avoid long cassettes, such as 120-minute tapes. The tape is thin and easily tangled around the pinch roller or other parts.
- If you do not listen to your tape, remove it from the unit and store it safely. If a cassette is left in for a long time, the tape can stick to the tape head, causing failure.

# Features



## ■Tuner section

- **Auto seek tuning (Page 9)**
  Automatically searches for stations you can receive.
- **Station preset memory (Page 14)**
  Stores the frequencies of your favourite stations in memory. The frequencies stored in memory can be recalled by a single touch of a button.
- **Auto memory entry (Page 15)**
  Automatically stores the stations in the band you are listening to in memory. You can tune to the stations stored in memory by a single touch of a button in the same way as for the Stations preset memory function. If you use this function when you drive a long way and do not know what stations are available there, you can check the programmes broadcast by local stations by recalling them by a single touch of a button.
- **Priority radio preset (Function of KRC-455L) (Page 16)**
  This function enables you to tune to the preset station by a single touch of a button while you are listening to a cassette or disc. Since you can listen to a station without switching to the tuner mode, it is useful to listen your favourite station (such as news, traffic information).
- **Traffic information (Function of KRC-455D) (Page 17)**
  When you turn on this function, your tuner automatically picks up signals only from traffic information stations during Auto seek tuning. When traffic information broadcasting starts, the volume is automatically set to the preset level because you can preset the volume level. If it detects a traffic information signal while you are playing a cassette or CD, it automatically switches to the traffic information broadcast.
- **Tuner timer (Page 20)**
  When this feature is turned on, the tuner automatically tunes to the station you have specified at the time you have set provided the unit power is on.
- **Local seek (Page 11)**
  When this feature is turned on, the tuner scans only the stations offering good reception during Auto seek tuning and Auto memory entry.
- **Mono reception (Page 11)**
  When stereo reception conditions are poor, turning on this function switches reception to mono, improving sound quality by reducing noise.

## ■Cassette player section

- **Tape type selection (Page 13)**
  The Tape type selection function allows you to play normal tapes and metal (chrome) tapes.
- **Tape advance (Page 21)**
  This function allows you to rewind to the start of the current track, fast forward to the start of the next track, and automatically play the tape.
- **Tuner call (Page 22)**
  When this function is turned on, you can listen to the radio while rewinding or fast forwarding a cassette.

# Features

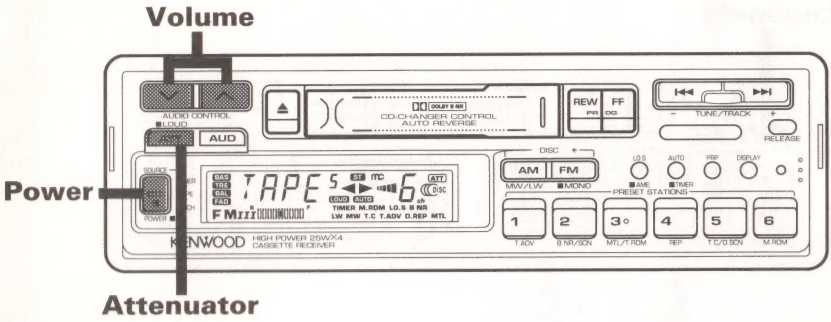
## ■CD changer control section

- **CD auto-changer control (Page 23)**
  This unit has a CD auto-changer control function.
- **Track / Disc search (Page 24)**
  You can search for the track / disc you want by specifying the track / disc number.
- **Track repeat (Page 25)**
  When this function is turned on, the track you are listening to is played repeatedly.
- **Disc repeat (Page 25)**
  When this function is turned on, the disc you are listening to is played repeatedly.
- **Track scan (Page 26)**
  When this function is turned on, the first part of each track on the disc you are listening to is played automatically to help you find the one you want.
- **Disc scan (Page 27)**
  When this function is turned on, the first part of each disc in the CD auto-changer is played automatically to help you find the one you want from the magazine loaded in the CD auto-changer.
- **Random play (Page 28)**
  When this function is turned on, the tracks on the disc you are listening to are played in random order.
- **Magazine random play (Page 29)**
  When this function is turned on, the tracks on the discs in your CD auto-changer are played in random order.

## ■General section

- **Attenuator (Page 7)**
  This function allows you to lower the volume quickly. The fade-in function is provided to restore the original volume gradually.
- **Loudness control (Page 8)**
  When this function is turned on when the volume level is low, sound is made clear by emphasizing bass.
- **Audio controls (Page 30)**
  Adjust the bass, treble, balance, and fader.
- **Clock display (Page 32)**
  The time can be displayed.
- **Theft deterrent faceplate (Page 33)**
  The faceplate is detachable. When you leave the vehicle, you can take the faceplate with you to help prevent theft.
- **Disabled system indicator (Page 34)**
  When the faceplate is detached from the unit, the LED blinks.

# Power/Volume/Attenuator




## To turn the power on

Press the Source button.

**NOTE**

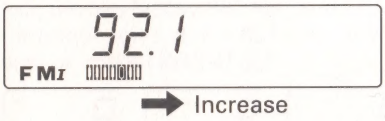
Perform the following operations with the power on.

## To turn the power off

Press the Source button for more than a second.

## To increase the volume

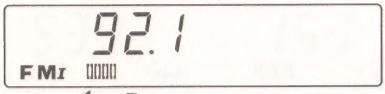
Press the Audio up button.




➡ Increase

## To decrease the volume

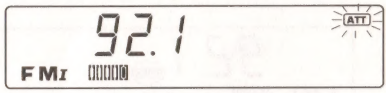
Press the Audio down button.




⬅ Decrease

## To use the Attenuator function

Briefly press the Attenuator button. The Attenuator indicator will appear on the display and Attenuator function will turn on.



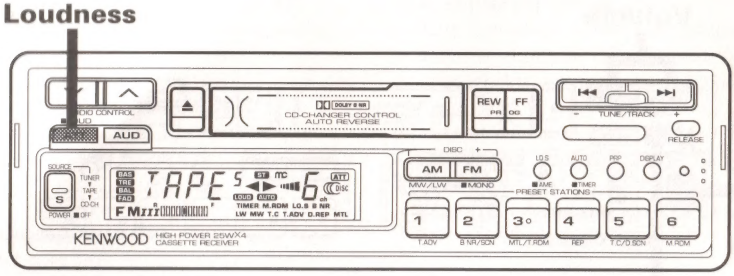

ON

## To cancel the Attenuator function

Briefly press the Attenuator button or set the volume to minimum. The Attenuator indicator disappears and the Attenuator function is cancelled.

# Loudness






## To use loudness control

Press the Loudness button for more than a second.

Loudness is turned on and the Loudness indicator appears on the display. This function is factory-set to ON.

ON

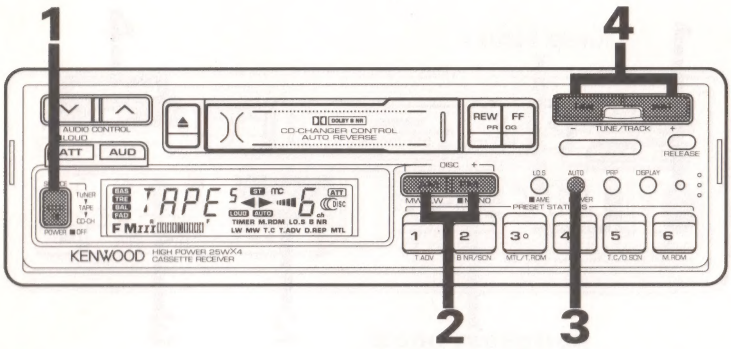
## To cancel loudness control

Press the Loudness button for more than a second.

Loudness is turned off and the Loudness indicator disappears.

# Auto seek tuning

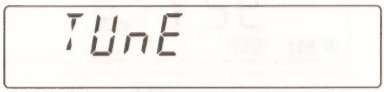





## 1 Listen to the radio

**Press the Source button to select Tuner mode.**

When "TUnE" is displayed, you are in Tuner mode.




## 2 To select a band

**Press the FM/AM button.**

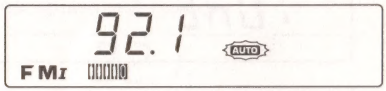
Each time you press the FM button briefly, the band changes between FM1, FM2, and FM3.

Press the AM button to choose MW/LW band. The tuner will automatically select LW for frequencies below 281 kHz and MW for frequencies above 531 kHz. (LW only on model KRC-455L)

## 3 To select Auto seek tuning mode

**Briefly press the Auto button.**

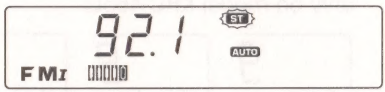
The Auto indicator will appear on the display and Auto seek tuning will turn on. This function is factory-set to ON.




## 4 To tune

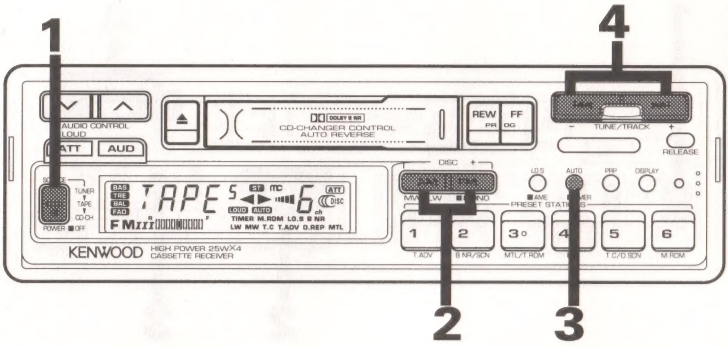
**Press the Tuning up/down button.**

When the Tuning up button is pressed, up seeking is performed. When the Tuning down button is pressed, down seeking is performed. The Stereo indicator appears on the display when stereo broadcasts are received.



# Manual tuning

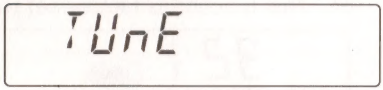





## 1 Listen to the radio

**Press the Source button to select Tuner mode.**

When "TUnE" is displayed, you are in Tuner mode.




## 2 To select a band

**Press the FM/AM button.**

Each time you press the FM button briefly, the band changes between FM1, FM2, and FM3.

Press the AM button to choose MW/LW band. The tuner will automatically select LW for frequencies below 281 kHz and MW for frequencies above 531 kHz. (LW only on model KRC-455L)

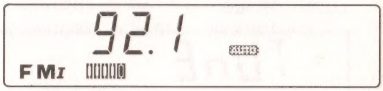
FM1 FM2 FM3

MW LW

## 3 To select Manual tuning mode

**Briefly press the Auto button.**

The Auto indicator disappears and the Auto seek tuning is cancelled.

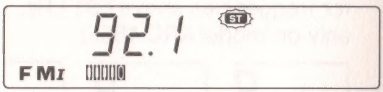



## 4 To tune

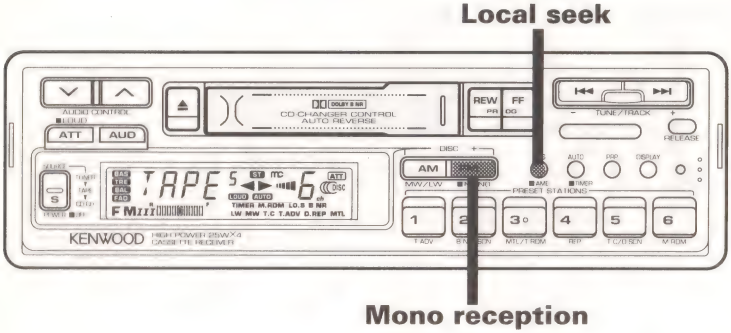
**Press the Tuning up/down button.**

When you press the button once, the received frequency changes by one step. The frequency will continue to change as long as you hold the button down.

The Stereo indicator appears on the display when stereo broadcasts are received.



# Local seek/Mono reception




## To use Local seek

**Briefly press the Local seek button.**
The Local seek indicator will appear on the display, and local seek will turn on.

ON

## To cancel Local seek

**Briefly press the Local seek button.**
The Local seek indicator disappears, and local seek turns off.

## To turn on Mono reception

**Press the Mono reception button for more than a second.**
The Mono reception indicator will appear on the display, and Mono reception will turn on.

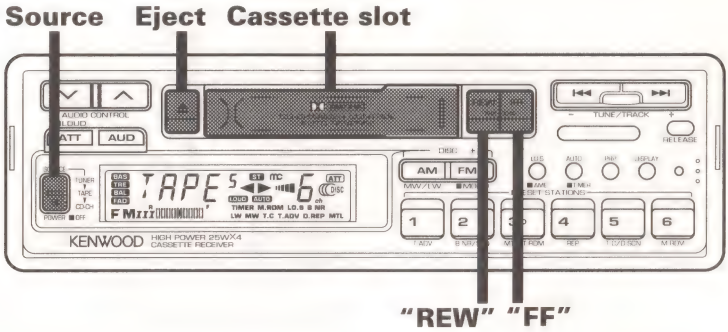
ON

## To cancel Mono reception

**Press the Mono reception button for more than a second.**
The Mono reception indicator disappears, and Mono reception turns off.

# Cassette tape play






## To play a cassette

**Insert a cassette with the tape aperture on the right.**
**If there is a tape in the unit, press the Source button to select Tape mode.**
The word "TAPE" will be displayed, and playback will start.

**⚠CAUTION**

If you do not listen to your tape, remove it from the unit and store it safely. If a cassette is left in for a long time, the tape can stick to the tape head, causing failure.

**NOTE**

When you insert the cassette with side A up, one of the following indicators appears or blinks on the display to indicate the tape operation.

| Indicator | Tape side playing/status |
|---|---|
| ▶ | Side A |
| ◀ | Side B |
| ◀▶ | The tape is stopped. The player is in another mode. |
| ◀▶ | Fast forwarding/rewinding |

## To stop and eject

**Press the Eject button.**
The tape playing stops and the player ejects the cassette.

## To fast forward/rewind

**Press the "FF" or "REW" button.**
When you press the "FF" button, the tape is fast forwarded. When you press the "REW" button, the tape is rewound.
The Operation indicator blinks.

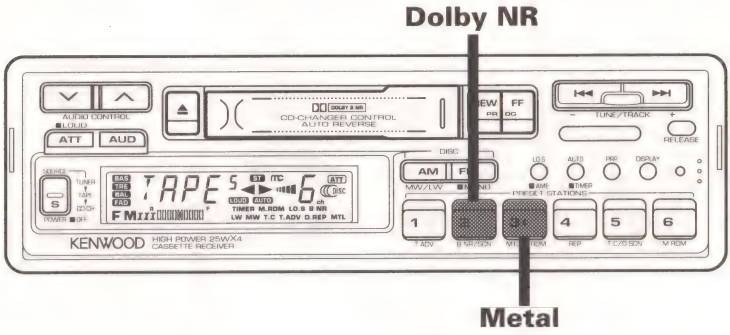
## To cancel fast forward/rewind

**To cancel fast forward, press the "REW" button.**
**To cancel rewind, press the "FF" button.**
The fast forward/rewind is cancelled and the tape playing begins.

## To switch sides

**Press the FF and REW buttons simultaneously.**
The player will play the reverse side.

# Dolby B NR/Tape type selection




## To use Dolby B NR

Press the Dolby NR button.
The Dolby B NR indicator will appear on the display and Dolby B NR will turn on.

ON

## To cancel Dolby B NR

Press the Dolby NR button.
The Dolby B NR indicator will disappear and Dolby B NR will turn off.

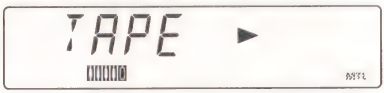
## To listen to metal/chrome tapes

Press the Metal button.
The Metal indicator will appear on the display and the unit will be set to the metal/chrome tape position.

Metal/chrome tape position

## To listen to normal tapes

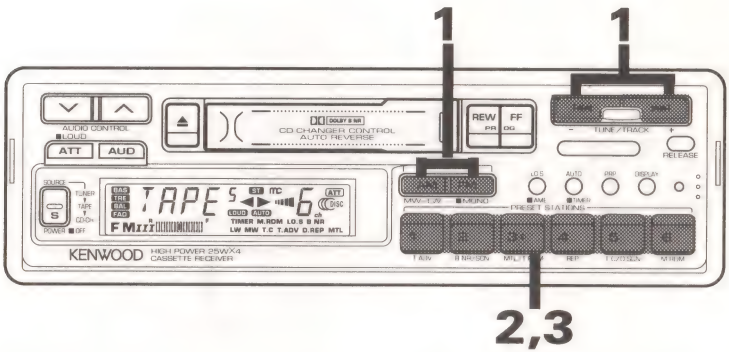
Press the Metal button.
The Metal indicator will disappear and the unit will be set to the normal tape position. The unit is factory-set to the normal tape position.




Normal tape position

# Station preset memory





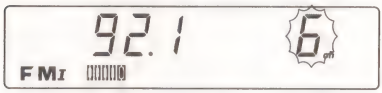

## 1

Select the band and station (frequency) you want to preset.

## 2 To preset

**Press the Preset station button (1 to 6) you want to use for more than two seconds.**

When the station is entered in memory, the number of the button to which you've assigned it will be displayed.




You can preset each button for one station each from the FM1, FM2, FM3, and AM (MW/LW) bands. (Only the KRC-455L can receive the LW band.)

**NOTE**

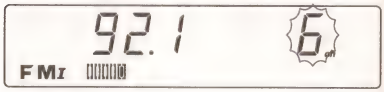
**To change preset frequencies**

Tune in a station you want to preset and press the Preset station button you want to change for more than two seconds.

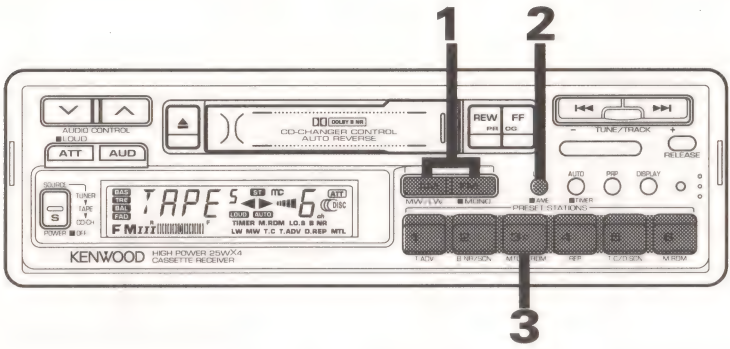
## 3 To recall a preset station

**Briefly press the Preset station button (1 to 6) you want.**

The number of the button that you pressed will be displayed, and the preset station will be recalled.



# Auto memory entry



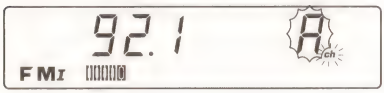

**1**

Select the band for Auto memory entry.

**2** Auto memory entry

**Press the Auto memory button for more than two seconds.**

Auto memory entry starts and preset station button numbers are displayed in order.




When stations are preset in all Preset stations buttons, Auto memory entry ends. The last preset station is received.

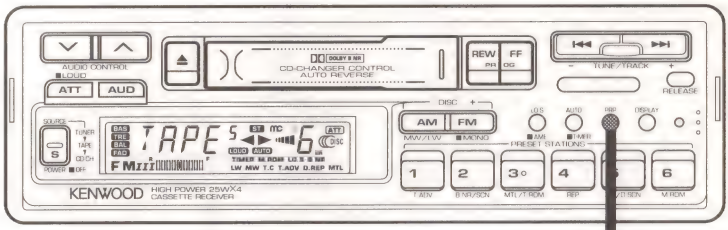
**3** To recall stations stored in memory by Auto memory entry

**Briefly press a Preset station button (1 to 6).**

The number of the pressed button is displayed, and the station is recalled.

# Priority radio preset

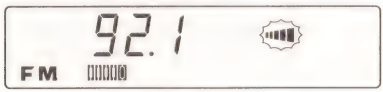
*Function of the KRC-455L*




## To recall preset stations

**Press the Priority radio preset button.**

The Priority radio preset indicator appears on the display and the preset station is recalled.




ON

## To return to the original mode

**Press the Priority radio preset button.**

The Priority radio preset indicator disappears and the original mode returns.

## To change the station to be recalled

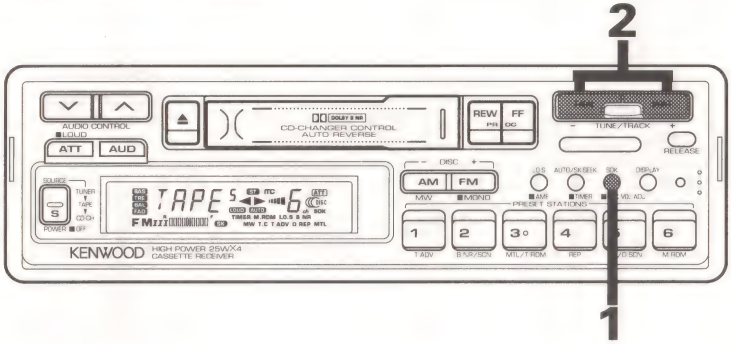
**Tune to the station you want in the Priority radio preset mode.**

Only Auto seek tuning and Manual tuning can be performed in the Priority radio preset mode. Tune to the desired station by Auto seek tuning or Manual tuning.

The station you are tuned to is automatically preset, and will be recalled subsequently.

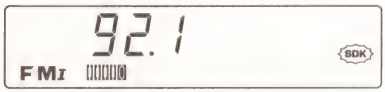
# Traffic information

*Function of the KRC-455D*




## 1

**Briefly press the SDK button.**
The SDK indicator will appear on the display and the Traffic information function will turn on.




**NOTE**

Pressing the SDK button while in the MW band switches you to the FM band. Pressing the SDK button again will not return you to the MW band.

## 2

**Perform Auto seek tuning.**
When a traffic information (SK) station is received, the SK indicator appears on the display.

When traffic information broadcasting starts, you can listen to traffic information at the volume level you set.

**NOTE**

**If the SK station signal is weak**
When the SDK indicator is blinking, the SK station signal is weak. Tune to another SK station by Auto seek tuning.

**To listen to traffic information only**
Tune to the SK station and reduce volume level to minimum to listen to traffic information only. When traffic information broadcasting starts, the volume increases automatically.

## To listen to traffic information at the original volume level

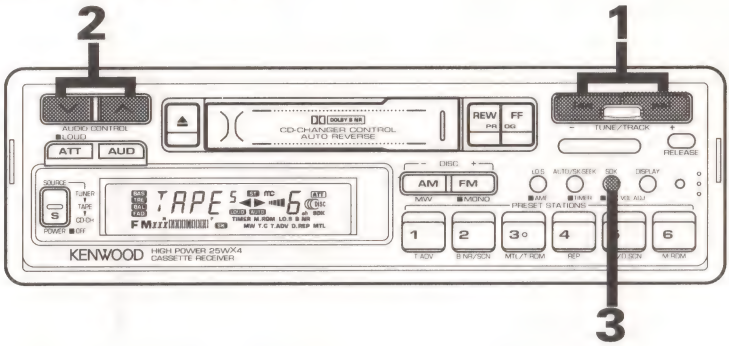
**Briefly press the SDK button.**
The Traffic information function is cancelled and you can listen to the traffic information at the original volume level.

## To cancel

**Briefly press the SDK button.**
The SDK indicator disappears and the Traffic information function is cancelled.

# To set the volume level for traffic information

*Function of the KRC-455D*






**1**

Tune in a station.

**2** To set the volume level for traffic information

Set the volume level for receiving traffic information.

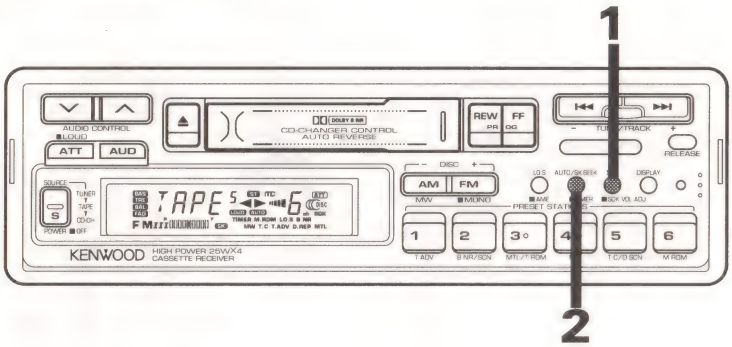
**3** To store the volume level in memory

**Press the SDK button for more than two seconds.**

The volume level is stored in memory. You can listen to traffic information at this volume level subsequently.

# Traffic information while playing cassettes or CDs

*Function of the KRC-455D*




## 1 To turn on the Traffic information function

**Press the SDK button.**

The SDK indicator will appear on the display and the received frequency will be displayed.

When the tuner picks up the traffic information (SK) station, the SK indicator appears on the display.

When traffic information broadcasting starts, the unit will switch automatically into Tuner mode. You can listen to traffic information at the volume level you set.

When traffic information broadcasting ends, the source you were originally listening to will return automatically.

If the traffic information station's signal weakens, the tuner automatically up-seeks for another SK station with a stronger signal.

## 2 To tune to another station

**Briefly press the SK seek button.**

The tuner searches upward for another SK station.

## To listen to a cassette or disc

**Press the SDK button.**

The Traffic information function is cancelled and cassette or disc play resumes.

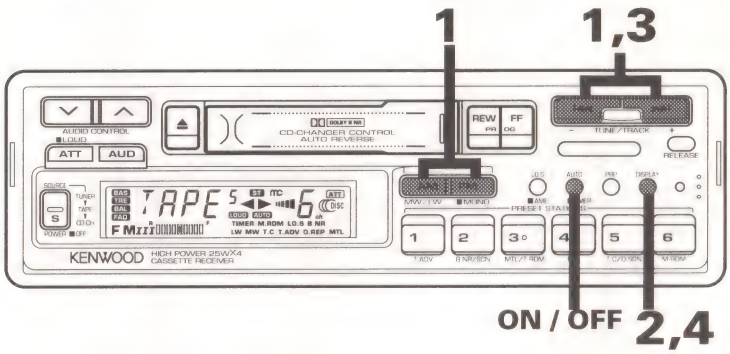
## To cancel

**Press the SDK button.**

The SDK indicator disappears and the Traffic information function is cancelled.

# Tuner timer






## 1 To set a station

**Tune in the station you want to receive with the Tuner timer function.**

## 2 To enter the set timer mode

**Press the Set timer (DISPLAY) button for more than two seconds.**
The time is displayed and blinks and the unit enters the set timer mode.

**NOTE**

To cancel the set timer mode in the middle, briefly press the Set timer (DISPLAY) button.

## 3 To set the time

**Press the Hour button and Minute button.**
Press the Hour (|◄◄) button to set the hours.
Press the Minute (►►|) button to set the minutes.

## 4 To start Tuner timer

**Press the Set timer (DISPLAY) button for more than two seconds.**
The Timer indicator will appear on the display and the Tuner timer function will turn on.

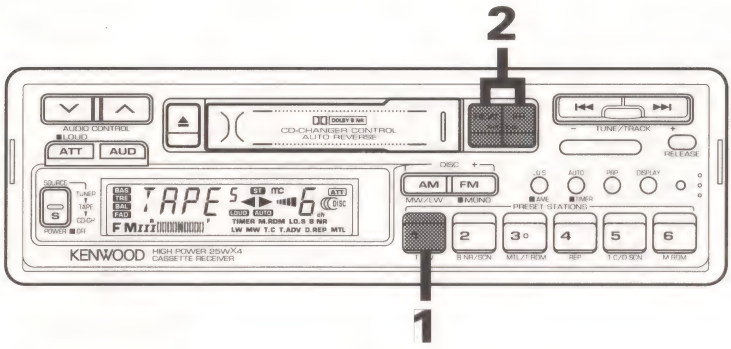
If the power to the unit is on, the tuner tunes to the specified station automatically at the set time.

## Tuner timer ON/OFF

**Press the Timer button for more than a second.**
Each time you press this button, the Tuner timer function turns on and off. When the function turns on, the Timer indicator appears on the display.

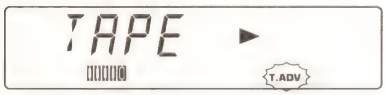
ON

# Tape advance




## 1

**Press the Tape advance button.**
The Tape advance indicator will appear on the display and the Tape advance function will turn on.




ON

**NOTE**

This function detects the first part of a track by detecting the blank space between tracks. If the blank space between tracks is less than four seconds, or the volume is low for more than four seconds, the function will not operate correctly.

## 2

### To return to the start of the current track

**Press the "REW" button.**
The tape will rewind and the player will replay the track.

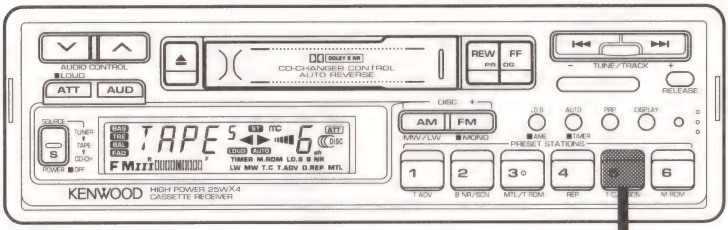
### To advance to the next track

**Press the "FF" button.**
The tape will fast forward and the player will start playing the next track.

## To cancel

**Press the Tape advance button.**
The Tape advance indicator disappears and the Tape advance function is cancelled.

# Tuner call




## To turn the Tuner call function on

**Press the Tuner call button.**
The Tuner call indicator will appear on the display and the Tuner call function will turn on.

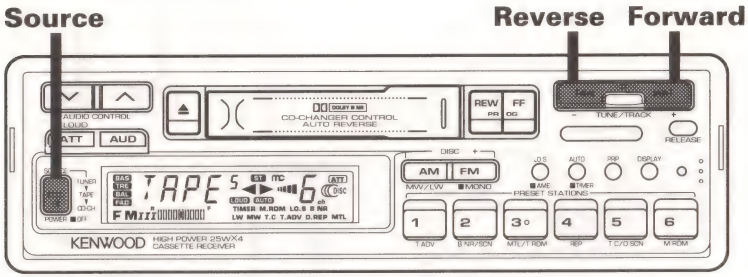
ON

The radio turns on automatically during fast forwarding or rewinding.

## To cancel

**Press the Tuner call button.**
The Tuner call indicator disappears and the Tuner call function is cancelled.

# CD play with CD auto-changer

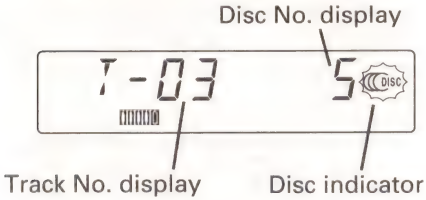



## To play compact discs

**Press the Source button to select CD changer mode.**

If you see Cd display, you are in CD changer mode.

The Disc indicator will appear on the display and disc play will begin.




When the player reaches the end of the last track on the disc you are playing, it will shift automatically to the first track on the next disc. When the player plays the last disc, it will return to the first disc.

When you change the discs in the auto changer, "LoAd" is displayed.

Disc No. 10 is displayed as "0".

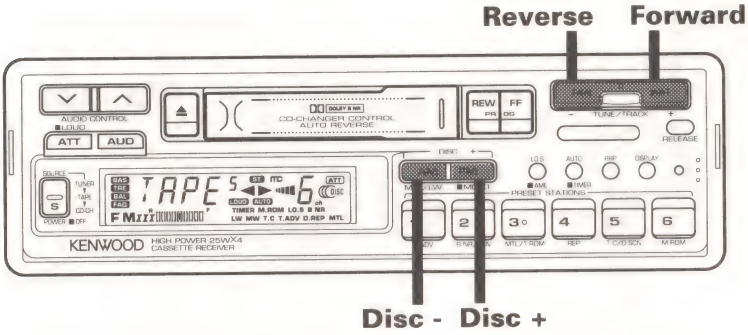
## To fast forward

Hold down the Forward button.

## To reverse

Hold down the Reverse button.

# Track/Disc search




## Reverse track search

**Briefly press the Reverse button.**

When you press this button once, the player returns to the start of the track you are listening to. Each time you press the button, the track number on the display decreases. The player plays the track with the track number shown on the display.

**NOTE**

If you try reverse track search while playing track 1, the player will resume play at the start of track 1; it does not search for the last track.

## Forward track search

**Briefly press the Forward button.**

Each time you press this button, the track number on the display increases. The player plays the track with the track number shown on the display.

**NOTE**

If you try forward track search while playing the last track on a disc, the Forward track search function does not work.

## Reverse disc search

**Press the Disc - button.**

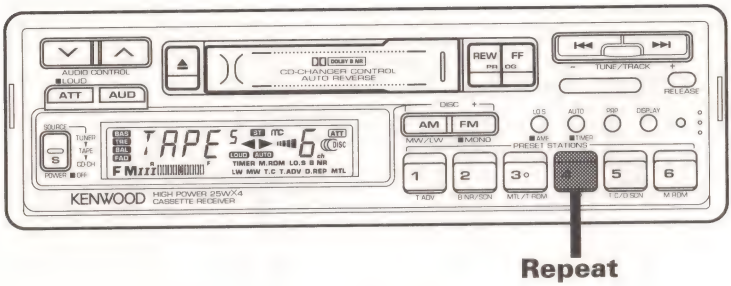
Each time you press this button, the disc number on the display decreases. The player plays the disc with the disc number shown on the display.

## Forward disc search

**Press the Disc + button.**

Each time you press this button, the disc number on the display increases. The player plays the disc with the disc number shown on the display.

# Track/Disc repeat




## To start track repeat

**Press the Repeat button once.**

When Disc repeat is on, press the button twice.

The Repeat indicator will appear on the display and the Track repeat function will turn on.

The same track is played repeatedly.

ON

## To cancel Track repeat

**Press the Repeat button twice.**

The Repeat indicator disappears and the Track repeat function is cancelled.

## To start Disc repeat

**Press the Repeat button twice.**

When Track repeat is on, press the button once.

The Disc repeat indicator will appear on the display and the Disc repeat function will turn on.

The same disc is played repeatedly.

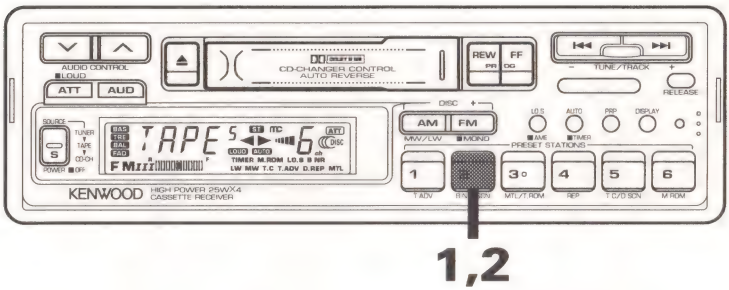
ON

## To cancel Disc repeat

**Press the Repeat button once.**

The Disc repeat indicator disappears and the Disc repeat function is cancelled.

# Track scan




## 1

**Press the Track scan button.**
The player will play the first 10 seconds of each track in succession. The track number blinks on the display.

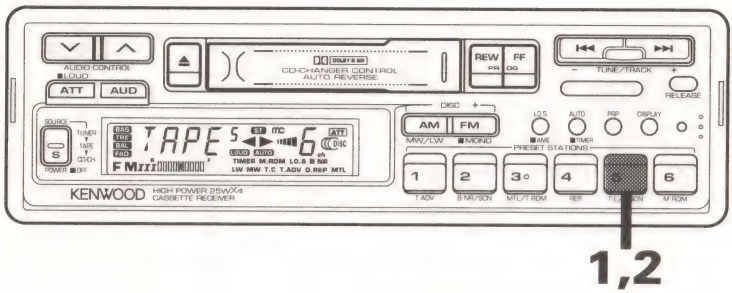
## 2 To select a track

**Press the Track scan button.**
The Track scan is cancelled and normal playback starts.

**NOTE**

- When CD play stops, Track scan is cancelled.
- When all tracks on the disc you are listening to are scanned, Track scan is cancelled.

# Disc scan




## 1

**Press the Disc scan button.**
The player will play the first 10 seconds from each disc in succession. The disc number blinks on the display.

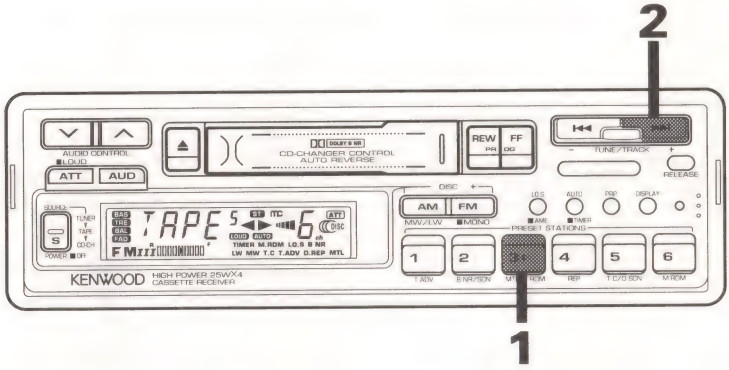
## 2 To select a disc

**Press the Disc scan button.**
The Disc scan is cancelled and normal playback starts.

**NOTE**

- When CD play stops, Disc scan is cancelled.
- When all discs in the magazine you are listening to are scanned, Disc scan is cancelled.

# Random play




## 1

**Press the Random button.**
The Random indicator will appear on the display and the player will randomly select another track from the disc you are playing. The track numbers on the display will change continuously during track selection. When a track is selected, playback will begin automatically.

ON

**NOTE**

When all the tracks on a disc have been played, the player will randomly select the next disc.

## 2 To select another track

**Press the ▶▶| button.**
The player will randomly choose another track.

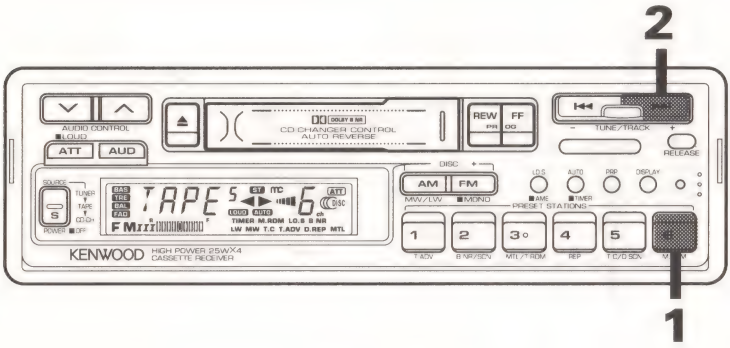
## To cancel

**Press the Random button.**
The Random indicator disappears and Random play is cancelled. Normal CD play starts.

**NOTE**

When the CD play stops, the Random play function is cancelled.

# Magazine random play




## 1

**Press the Magazine random button.**
The Magazine random indicator will appear on the display and the player will randomly select another track from the disc you are playing. The track/disc numbers on the display will change continuously during track selection.
When a track is selected, playback will begin automatically.

ON

**NOTE**

The Magazine random play is not available if you use the KDC-C200/C300/C400/C301/C401.

## 2 To select another track

**Press the ▶▶| button.**
The player will randomly choose another track.

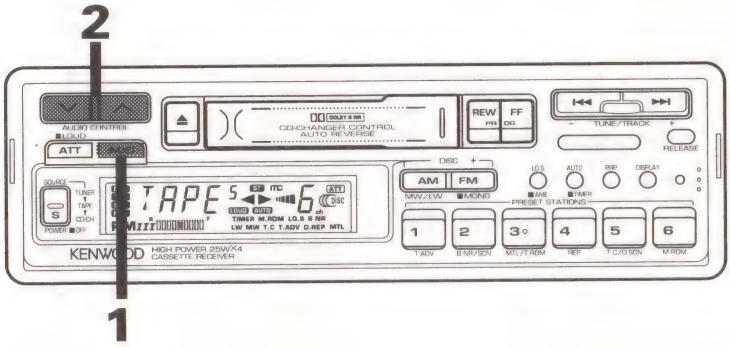
## To cancel

**Press the Magazine random button.**
The Magazine random indicator disappears and Magazine random play is cancelled. Normal CD play starts.

**NOTE**

- When CD play stops, the Magazine random play function is cancelled.
- The Magazine random selection time changes according to the number of discs in the magazine.

# Audio controls




## 1 To select the control mode

**Press the Audio button.**

Each time you press this button, the adjustment mode changes as follows: Bass -> Treble -> Balance -> Fader -> Volume. If you do not perform the next operation within five seconds, the Volume adjustment mode (normal mode) will return.

**NOTE**

**Source tone memory**

This unit allows the Tone (Bass and Treble) control to be set independently for each source mode (Tape, Tuner, and CD). The tone set in Tape mode is recalled automatically when you select Tape, and the tone set in Tuner mode is recalled automatically when you select Tuner.

## 2 To adjust each mode

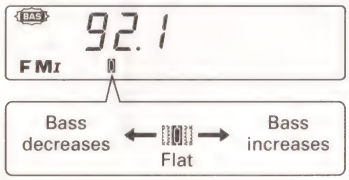
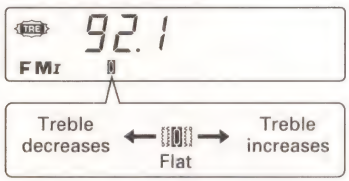
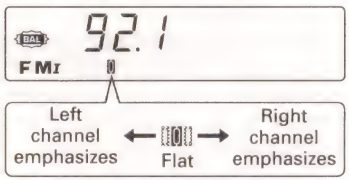
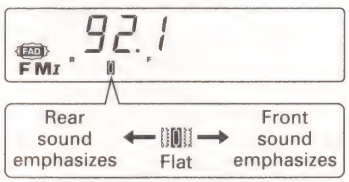
**Press the Audio control button.**

Adjust each mode according to the table.

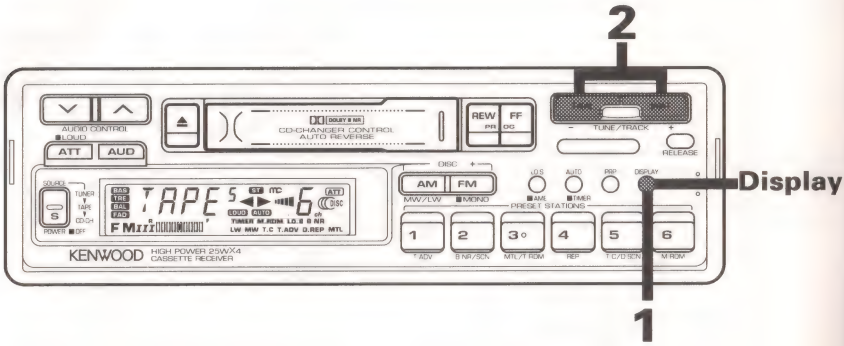
## To cancel

**Press the Audio button for more than a second.**

The Volume adjustment mode will return.

| Display | Operation of Audio control button | |
|---|---|---|
| | Audio down button | Audio up button |
| *Bass adjustment*<br>  | Bass decreases. | Bass increases. |
| *Treble adjustment*<br>  | Treble decreases. | Treble increases. |
| *Balance adjustment*<br>  | Left channel emphasizes. | Right channel emphasizes. |
| *Fader adjustment*<br>  | Rear sound emphasizes. | Front sound emphasizes. |

# Clock display/setting




## To recall clock display

Press the Display button.
The display changes as listed in the table.

| Mode | Displays |
|---|---|
| Tuner | Frequency ↔ Time |
| Tape | "TAPE" ↔ Time |
| CD changer | Disc/Track number ↔ Time |

## To set the clock

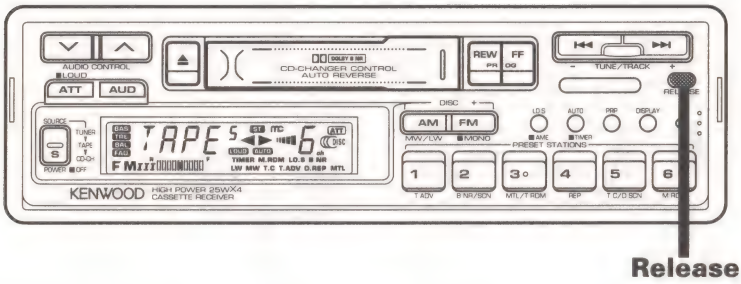
**1**

If the time is not displayed, press the Display button.
The time is displayed.

**2**

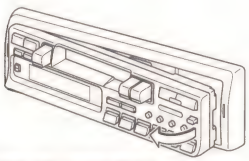
Hold down the Display button, and press the Tuning button.
Press the Tuning down button to adjust the hours and the Tuning up button to adjust the minutes.

# Theft deterrent faceplate



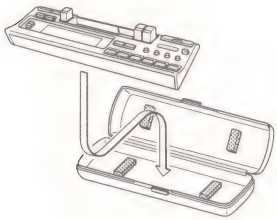

## To remove the faceplate

Press the Release button.
The faceplate is unlocked and can be detached.



**⚠CAUTION**

- Place the faceplate in the storage case (option) to prevent shocks. Since it is a precision piece of equipment, if it is subject to shock, it may fail.

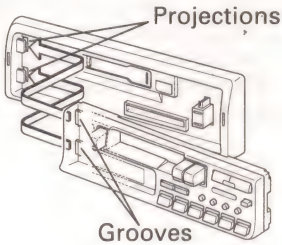


- Do not expose the faceplate or its storage case to direct sunlight or high heat, otherwise it may be deformed or fail.

## To install the faceplate

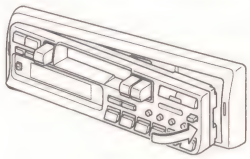
**1**

Align the projections on the faceplate with the grooves on the faceplate.

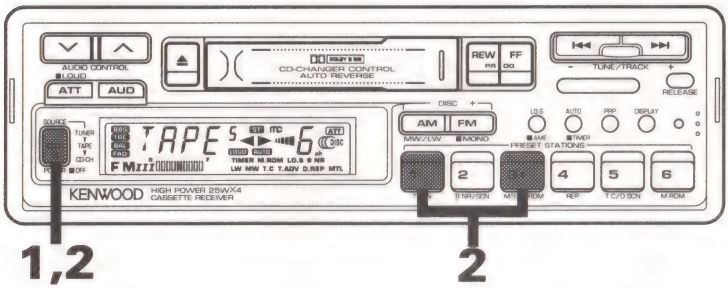



**2**

Press the faceplate until it clicks.
The faceplate is locked in place and the unit becomes operable.



# Disabled system indicator




**1**

Turn the power off.

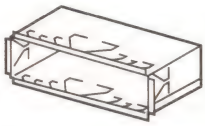
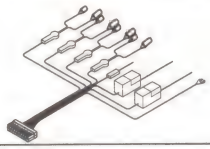
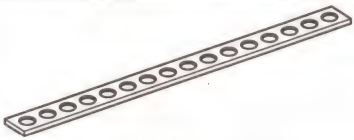
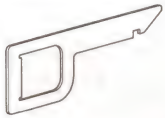
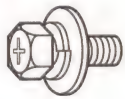
**2**

**Hold down preset station buttons "1" and "3" and turn the power on.**
The Disabled system indicator function turns off, and the LED does not blink when the faceplate is detached.

## To turn the Disabled system indicator on

**Perform steps 1 and 2 again.**
The LED blinks when the faceplate is detached.

# Accessories

| Part name | External view | Number of items |
|---|---|---|
| Mounting sleeve |  | 1 |
| Wiring harness |  | 1 |
| Metal mounting strap |  | 1 |
| Removal tool |  | 2 |
| Screw with washer (M4 × 8) |  | 1 |

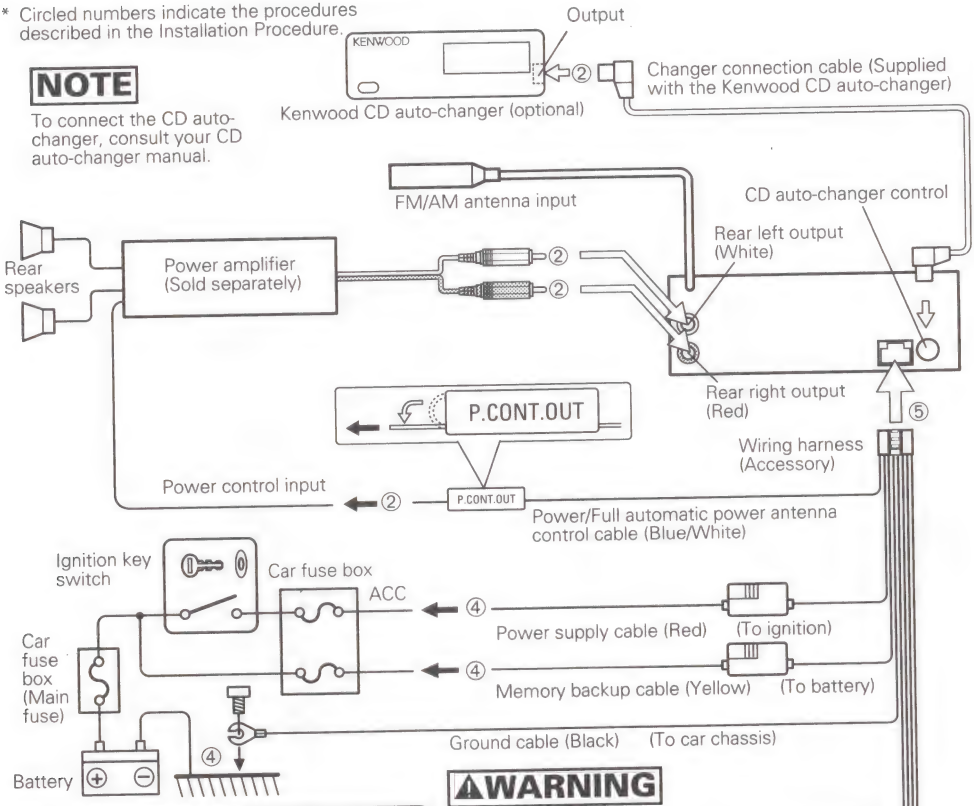
# Connections



* Circled numbers indicate the procedures described in the Installation Procedure.

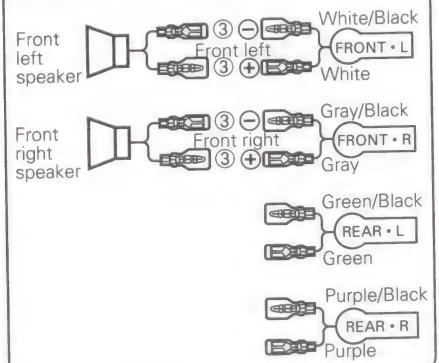
**NOTE**

To connect the CD auto-changer, consult your CD auto-changer manual.



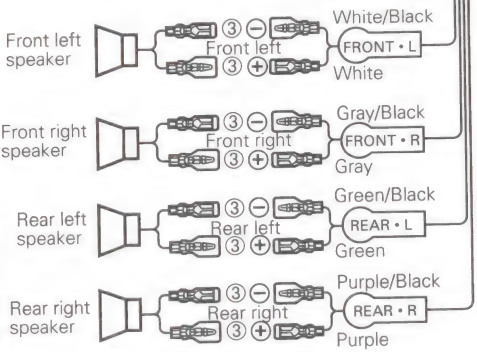

**⚠CAUTION**

When two speakers are connected to the system, be sure to connect both of them to the front output or rear output. In other words, do not connect the positive connector of the left speaker to the front output and the negative connector to the rear output.



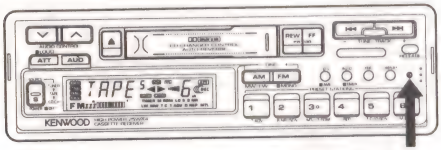

**⚠WARNING**

To prevent fire when the power supply cable (Red) or memory backup cable (Yellow) is short-circuited by coming into contact with the vehicle chassis (ground), only connect the power supply after making the fuse box connections.



# Installation procedure

1. Remove the ignition key and disconnect the negative (-) terminal of the battery to prevent short circuits.
2. Connect the input and output cables of the units.
3. Connect the speaker cables of the wiring harness.
4. Connect the ground cable, memory backup cable, and power supply cable of the wiring harness in the order listed.
5. Connect the wiring harness connectors to the unit.
6. Install the unit in the car.
7. Connect the negative (-) terminal of the battery.
8. Press the Reset button.

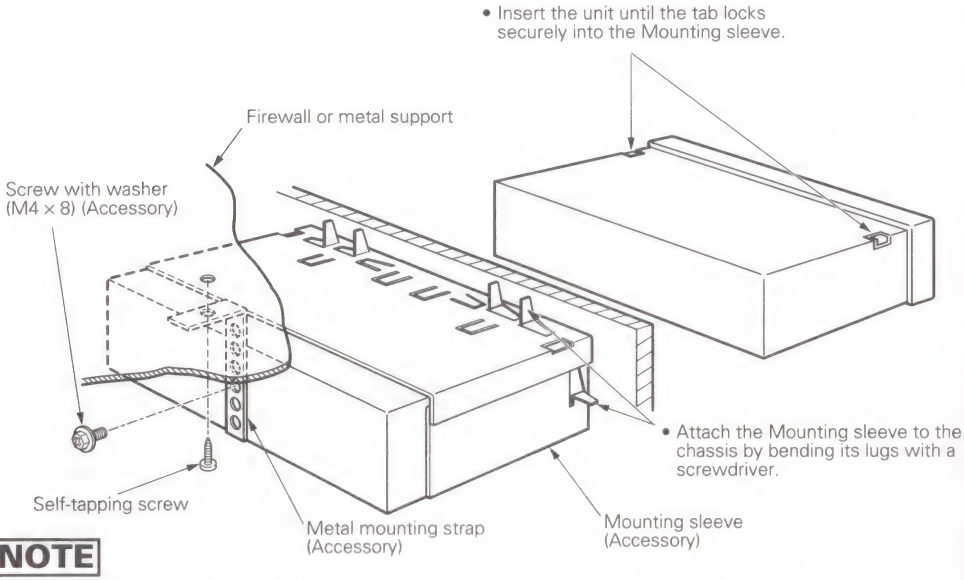



Reset button

**⚠CAUTION**

- If the fuse blows, check cables for shorts, then replace the fuse with one of the same rating.
- Check that no unconnected cables or connectors are touching the car body. Do not remove caps from unconnected cables or connectors to prevent short circuits.
- Connect the speaker cables to appropriate speaker connectors separately. Sharing the negative cable of the speaker or grounding speaker cables to the metal body of the car can cause this unit to fail.
- After installation, check that the brake lamps, winkers, and wipers work properly.
- Some CD auto-changers require a conversion cord for connection. See the "Safety precautions" for details.
- Insulate unconnected ends of cords with vinyl tape or similar.

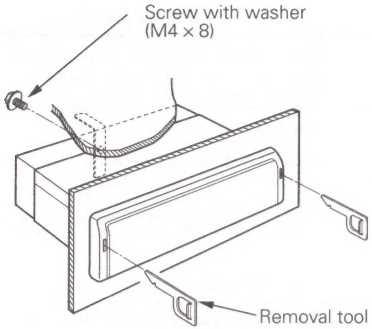
# Installation


• Insert the unit until the tab locks securely into the Mounting sleeve.
Firewall or metal support
Screw with washer (M4 × 8) (Accessory)
• Attach the Mounting sleeve to the chassis by bending its lugs with a screwdriver.
Self-tapping screw
Metal mounting strap (Accessory)
Mounting sleeve (Accessory)

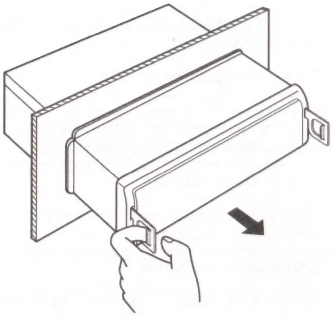
**NOTE**

Install the unit securely. If the unit is unstable, it may malfunction, causing sound skipping.

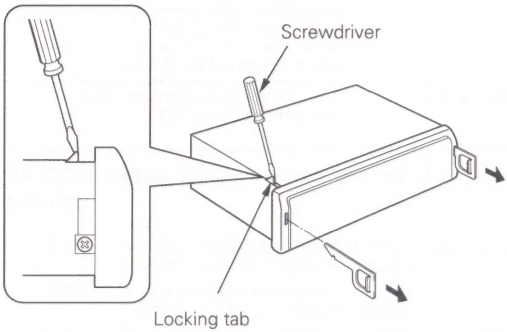
## To remove the unit.




1. Remove the Screw with washer (M4 × 8) holding on the back panel.



2. Insert the Removal tool into the slot in the unit and pull out the unit. The lock is released and the unit is detached.




3. Pull out the Removal tool by pressing down the locking tabs on the top using a screwdriver.

## CD auto-changer section

| Symptom | Cause | Remedy |
|---|---|---|
| CD auto-changer mode cannot be selected. | CD auto-changer input is not connected to the unit. | Connect the CD auto-changer input to the unit. |
| CD play does not start. | Power button is not turned ON. | Turn the power button ON, press the SOURCE button, and select the CD auto-changer mode. |
| The specified disc is not played; a different disc is played instead. | The disc is loaded upside down. | Eject the disc magazine and insert the disc correctly. |
| | Two discs are inserted in a slot. | Eject the disc magazine and insert the discs correctly. |
| | The number of the slot into which the disc is inserted is different from the number of the specified disc. | Eject the disc magazine and check the number of the specified disc. |
| | The disc is severely damaged. | Use another disc. |
| Sound skips due to vibration. | Something is touching the CD auto-changer. | Keep it away from the CD auto-changer. |
| Sound quality is poor. | The recording of the disc is poor. | Try playing another disc. If the sound is good, the fault was with the original disc. |
| No sound is heard even though the information concerning the CD auto-changer is displayed. | Volume is set to minimum level. | Raise the volume level. |
| | The microcomputer does not function correctly. | Press the Reset button on this unit. |
| | The system is not connected properly. | Connect the system properly. See "Connections" (Page 37). |
| The specified track is not played. | The player is set to RANDOM PLAY/MAGAZINE RANDOM PLAY. | Turn off RANDOM PLAY/MAGAZINE RANDOM PLAY. |

### In some cases, you may see one of the following error messages on your unit's display

**E-01:** No disc magazine in changer. Disc magazine is not inserted properly.
⇨Insert the disc magazine properly.:

**E-02:** No disc in disc magazine
⇨Load a disc in the disc magazine.

**E-04:** Disc is too dirty. The disc is upside down. The disc is damaged.
⇨Clean the disc and insert it correctly.

**E-99:** The unit malfunctions due to a defective CD mechanism.
Press the Reset button. If the "E-99" message does not disappear, contact your Kenwood dealer.

**HOLD:** When the temperature exceeds 60°C, a protection circuit will stop all operations. This message will then be displayed.
⇨Let the place where the changer is located cool down. As soon as it has cooled, the changer starts playing.

# Troubleshooting guide



**Often, what appears to be a malfunction is due to user error. Before calling for service please consult the following table.**

| Symptom | Cause | Remedy |
|---|---|---|
| The power is not turned on. | The wiring harness fuse blows. | Check cables for shorts, then replace the fuse with one of with the same rating (shown on the case). |
| No sound or sound is low. | The volume level is minimum. | Raise the volume level. |
| | The fader or balance is set to one side. | Adjust the fader and balance. |
| | The input/output cable or wiring harness is connected incorrectly. | Connect the input/output cable or wiring harness correctly. See "Connections" (Page 37). |
| | The cassette tape is faulty. | Use another cassette. |
| The unit does not work properly when a button is pressed. | The microcomputer malfunctions. | Press the Reset button on the front panel. |
| Sound quality is poor. (Sound distortion) | The volume level is too high. | Use the appropriate volume level. |
| | The tape head is dirty. | Clean the head. See "Cleaning the tape head (Page 4)". |
| | A speaker cable is pressed by a screw in the car. | Check the speaker cabling. |
| | A speaker cable is shared. | Connect the speaker output connectors to the separate speaker connectors. |
| A cassette cannot be inserted. | The cassette is deformed. | Use another cassette. |
| | The cassette has been inserted incorrectly. | Insert the cassette with the tape aperture on the right. |
| The cassette is not ejected. | The cassette is deformed. | Use another cassette. |
| | The cassette label is coming off. | Remove the label or reattach it properly. |
| Poor radio reception. | The car antenna is not extended. | Extend the antenna. |
| | The antenna control cable is not connected. | Connect the cable correctly. See "Connections (Page 37)" |
| Tape mode is not selected. | No cassette is inserted. | Insert a cassette into the unit. |
| When the ignition key switch is set to OFF, the memory contents disappear. | The Memory backup cable is not connected correctly. | Connect the cable correctly. See "Connections (Page 37)". |

# Specifications

Specifications subject to change without notice.



**FM tuner section**

| | |
|---|---|
| Frequency range | 87.5 MHz – 108.0 MHz |
| Usable sensitivity | 0.9 µV/75 ohms |
| Quieting sensitivity (S/N = 46 dB) | 1.6 µV/75 ohms |
| Frequency response (±3 dB) | 30 Hz – 15 kHz |
| Signal to Noise ratio | 68 dB |
| Selectivity | 70 dB (DIN) |
| Stereo separation (1 kHz) | 35 dB |
| 19 kHz carrier leakage | 65 dB |

**MW tuner section**

| | |
|---|---|
| Frequency range | 531 kHz – 1611 kHz |
| Usable sensitivity | 30 µV |

**LW tuner section (KRC-455L only)**

| | |
|---|---|
| Frequency range | 153 kHz – 281 kHz |
| Usable sensitivity | 60 µV |

**Cassette deck section**

| | |
|---|---|
| Tape speed | 4.76 cm/sec. |
| Wow & Flutter (WRMS) | 0.12 % |
| Fast winding time (C-60) | 100 sec. |
| Frequency response (+4 dB, -6 dB) | 30 Hz – 16 kHz (120 µs) |
| | 30 Hz – 18 kHz (70 µs) |
| Stereo separation (1 kHz) | 40 dB |
| Signal to Noise ratio (Dolby B NR OFF) | 54 dB |
| (Dolby B NR ON) | 63 dB |

**Audio section**

| | |
|---|---|
| Maximum output power | 25 W × 4 |
| Output power (10% THD, 1 KHz, 4 ohms) | 20 W × 4 |
| (1% THD, 1 KHz, 4 ohms) | 15 W × 4 |
| Tone action | Bass: 100 Hz ±10 dB |
| | Treble: 10 kHz ±10 dB |
| Preout level / Impedance | 1000 mV (Max.) / 100 ohms |

**General**

| | |
|---|---|
| Operating voltage | 14.4 V (11 – 16 V allowable) |
| Current consumption | 7.5 A at Rated power |
| Dimensions (W × H × D) | 188 × 58 × 176 mm |
| Installation size (W × H × D) | 182 × 53 × 154 mm |
| Weight | 1.8 kg |